

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 December 2004 (02.12.2004)

PCT

(10) International Publication Number
WO 2004/104213 A2

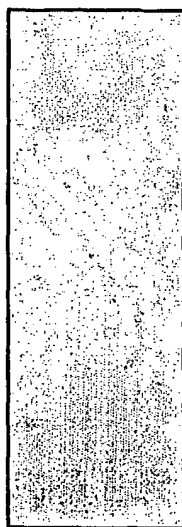
- (51) International Patent Classification⁷: **C12Q**
- (21) International Application Number:
PCT/US2004/015052
- (22) International Filing Date: 14 May 2004 (14.05.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/470,655 15 May 2003 (15.05.2003) US
- (71) Applicant (for all designated States except US): **THE ROCKEFELLER UNIVERSITY** [US/US]; 1230 York Av., New York, NY 10021-6399 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **FISCHETTI, Vincent, A.** [US/US]; 448 Joan Court, West Hempstead, NY 11552 (US). **NELSON, Daniel** [US/US]; 500 East 63rd Street, New York, NY 10021 (US). **SCHUCH, Raymond** [US/US]; 500 East 63rd Street, New York, NY 10021 (US).
- (74) Agents: **MALLON, Veronica** et al.; Klauber & Jackson, 411 Hackensack Avenue, Hackensack, NJ 07601 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NUCLEIC ACIDS AND POLYPEPTIDES OF C₁ BACTERIOPHAGE AND USES THEREOF

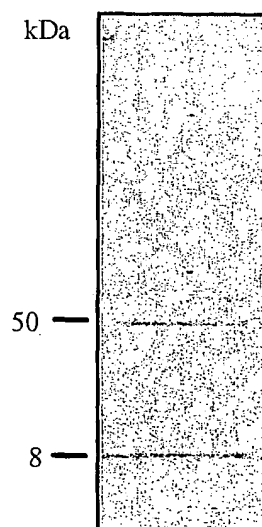
A.



B.



C.



(57) Abstract: The full-length nucleic acid sequence of the C₁ bacteriophage is disclosed in the present application. The specific regions of the C₁ genome encoding the PlyC lysin have also been identified and sequenced. The invention relates to the pharmaceutical and diagnostic utility of these sequences and provides for development of pharmaceutical compositions for treating or preventing streptococcal infections in mammals, for compositions for decontamination of inanimate surfaces and for diagnosis of streptococcal infections.